BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : *Improvements to Roads and Drains at Maruthinagara 4th main, 1st and 2nd cross roads and surrounding areas in Kempegowda ward No.1.*

Sl No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 49.00 Lakhs Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0 5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P 141/l 19 1) SR 2018-19								
		Cum							
	24th Bcross Maruthi Nagara		1	32 00	4 20	0 20	26 88		
	2nd cross (near Ajji mane)		1	50 00	3 50	0 20	35 00		
	9th A cross (2nd main)		1	38 00	4 60	0 20	34 96		
	Chinnu Play school		1	45 00	3 50	0 20	31 50		
	33rd cross road		1	27 00	7 00	0 20	37 80		
							166 14	137 80	22894.00
	Basic Rate	130 00							
	Area Weightage @ 6%	7 80							
	Total	**137.80**							
2	KSRB 2-2 1 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1 5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications. specification. No KBS 2 1(a) / 2 3 5 SR 2018-19								
		Cum							
	New Drains								
	1st cross (Ajji mane)		2	65 00	1 05	0 95	129 68		
	2nd cross		1	56 00	1 05	0 95	55 86		
	Cross Road		1	25 00	1 05	0 95	24 94		
	1st main Vikas Layout		1	75 00	1 05	0 95	74 81		
	2nd Main		1	75 00	1 05	0 95	74 81		
	Cross Roads		2	28 00	1 05	0 95	55 86		
	Culvert		2	8 00	1 65	1 20	31 68		
							447 64	316 94	141874.00
	Basic Rate Rs	299 00							
	Add Area Weightage @ 6%	17 94							
	Total	**316.94**							
3	KSRB4 1 3 Providing and laying position plain cement concrete of Mix 1 4 8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0 85 cum and fine aggregtes @ 0 57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No KBS 4 1, 4 2 (P12/4 3) SR 2018-19								
	24th Bcross Maruthi Nagara		1	32 00	4 20	0 15	20 16		
	2nd cross (near Ajji mane)		1	50 00	3 50	0 15	26 25		
	9th A cross (2nd main)		1	38 00	4 60	0 15	26 22		
	Chinnu Play school		1	45 00	3 50	0 15	23 63		
	33rd cross road		1	27 00	7 00	0 15	28 35		
	for RCC drain					0 15	0 00		
	1st cross (Ajji mane)		2	65 00	1 05	0 15	20 48		
	2nd cross		1	56 00	1 05	0 15	8 82		
	Cross Road		1	25 00	1 05	0 15	3 94		

No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	1st main Vikas Layout		1	75.00	1.05	0.15	11.81		
	2nd Main		1	75.00	1.05	0.15	11.81		
	Cross Roads		2	28.00	1.05	0.15	8.82		
	Culvert		2	8.00	1.65	0.15	3.96		
							194.24	5408.12	1050487.00
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 Page No 271 Ite mo 37.59.2 SR 2018-19 (wall and bottom thickness 15cm								
		Cum							
	Bottom raft								
	for RCC drain								
	1st cross (Ajji mane)		2	65.00	0.75	0.15	14.63		
	2nd cross		1	56.00	0.75	0.15	6.30		
	Cross Road		1	25.00	0.75	0.15	2.81		
	1st main Vikas Layout		1	75.00	0.75	0.15	8.44		
	2nd Main		1	75.00	0.75	0.15	8.44		
	Cross Roads		2	28.00	0.75	0.15	6.30		
	Culvert		2	8.00	1.50	0.15	3.60		
	Side wall								
	New Drains								
	1st cross (Ajji mane)		4	65.00	0.15	0.45	17.55		
	2nd cross		2	56.00	0.15	0.45	7.56		
	Cross Road		2	25.00	0.15	0.45	3.38		
	1st main Vikas Layout		2	75.00	0.15	0.45	10.13		
	2nd Main		2	75.00	0.15	0.45	10.13		
	Cross Roads		4	28.00	0.15	0.45	7.56		
	Culvert		4	8.00	0.25	0.80	6.40		
						Total	**113.21**	7070.20	800400.00
	Basic Rate	6670.00							
	Add Area Weightage @ 6%	400.20							
	Total	**7070.20**							
5	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. TMT bars Fe 500 KBS 4.6.3 Page No 18/ Item No 4.46/ PWD SR 2018-19								
		Tonne							
	for Drain 50kg/cum		1	103.21	50.00		5160.38		
	for culvert 60kg/cum		1	10.00	60.00		600.00		
	Total						**5760.38**		
							5.76	75223.96	433318.00
	Basic Rate	70966.00							
	Add Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
6	Supplying and fixing **precast** rainforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.(Drain covering slab)								

No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		Sqm							
	1st cross (Ajji mane)		2	65.00	0.75		97.50		
	2nd cross		1	56.00	0.75		42.00		
	Cross Road		1	25.00	0.75		18.75		
	1st main Vikas Layout		1	75.00	0.75		56.25		
	2nd Main		1	75.00	0.75		56.25		
	Cross Roads		2	28.00	0.75		42.00		
						Total	312.75	2337.00	730897.00
	Data rate	2337.00							
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
		Sqm							
			2	8.00	1.50		24.00		
							24.00	5418.00	130032.00
	Data rate	5418.00							
8	KSRRB M600-6 cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum), , No. 174/ Item No. 22.6.1) SR 2018-19								
		Cum							
	24th Bcross Maruthi Nagara		1	32.00	4.20	0.125	16.80		
	2nd cross (near Ajji mane)		1	50.00	3.50	0.125	21.88		
	9th A cross (2nd main)		1	38.00	4.60	0.125	21.85		
	Chinnu Play school		1	45.00	3.50	0.125	19.69		
	33rd cross road		1	27.00	7.00	0.125	23.63		
							103.84	5210.96	541093.00
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	5210.96							
9	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ SR 2018-19								
		No							
			1	425.00			425.00		
							425.00		
				No of kerb stone			944.44		
						Say	944.00	432.48	408261.00
	Basic Rate	408.00							
	Area Weightage @ 6%	24.48							
	Total	432.48							
10	KSRB 15-19.1 Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Item no 15.80 SR 2018-19								
		sqm							
			1	425.00		0.40	170.00		

Sl No	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
							170.00	39.22	6667.00
	Basic Rate	37.00							
	Area Weightage @ 6%	2.22							
	Total	39.22							
11	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Item no 24.1 SR 2018-19								
		sqm							
							Qty vide Item No.18	170.00	84.80	14416.00
	Basic Rate	80.00							
	Area Weightage @ 6%	4.80							
	Total	84.80							
12	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1) SR 2018-19								
		Cum							
							Qty Vide Item No 1+2	613.78	87.56	53740.00
	Basic Rate for loading and unloading	57.00							
	Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	25.60							
	Basic Rate	82.60							
	Area Weightage 6%	4.96							
	Grand Total	87.56							
								Sub total		4334079.00
14	GST of 12% as per Govt Letter No PWD 65 RDF 2017 Dated 11-10-2018									520089.48
	DPR and PMC Charges 1%									43340.79
15	Miscellaneous and unforeseen charges	Ls								2490.73
								Total Ammount Rs.		4900000.00

(Rupees Fourty Nine Lakhs only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2018-19
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.1

Executive Engineer
Yelahanka-Division
B.B.M.P

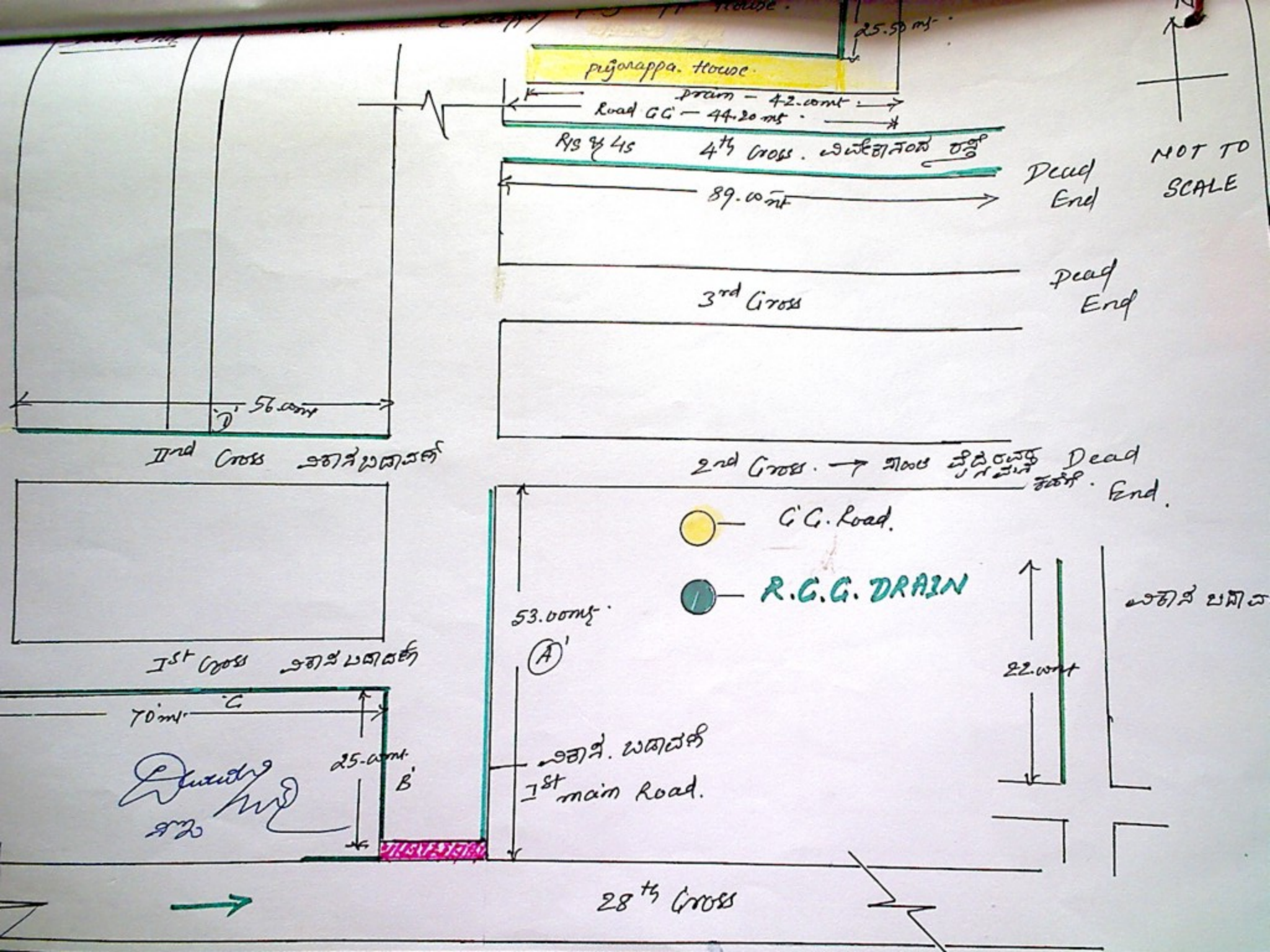
Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

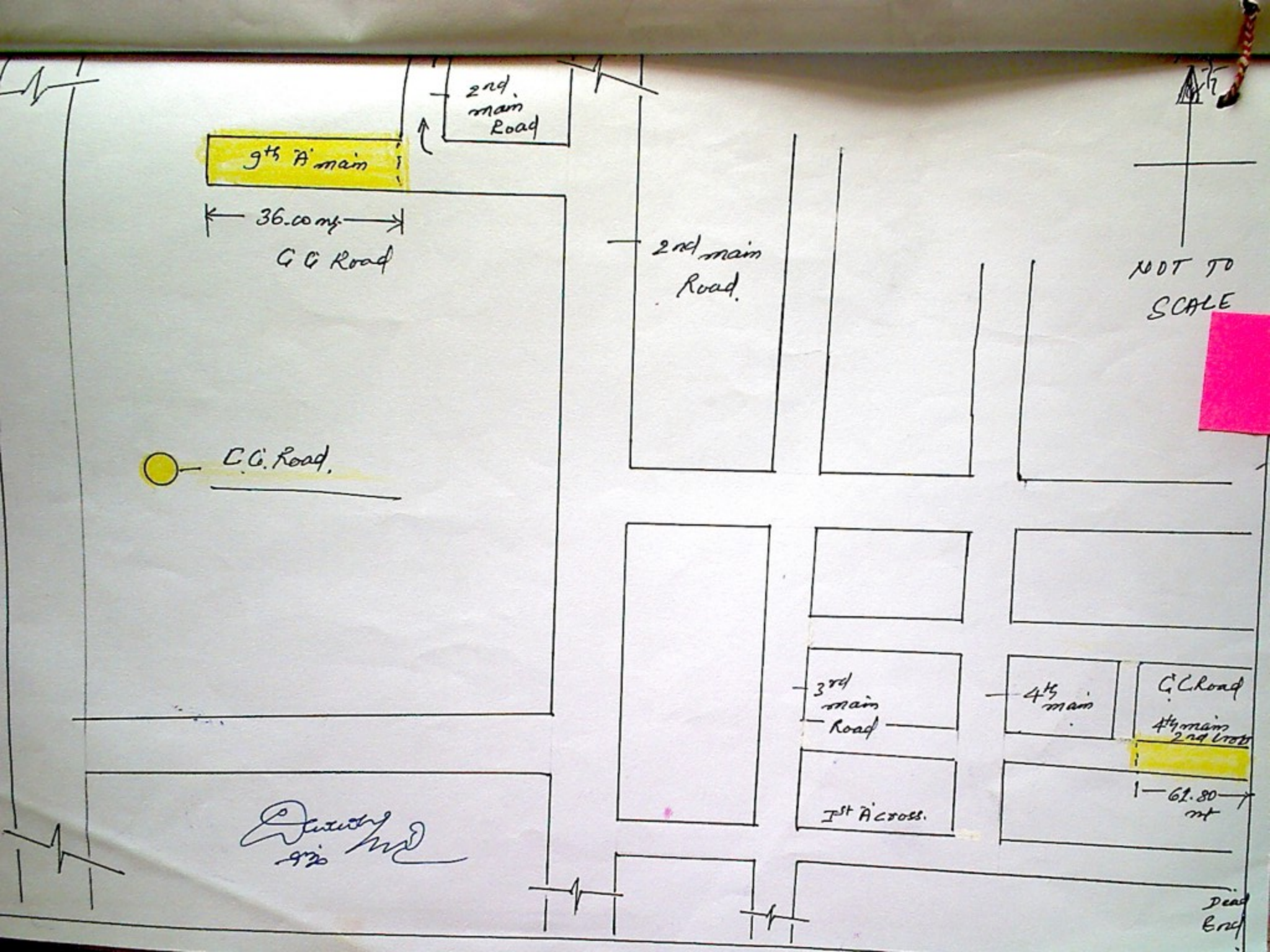
Administrative Approval
Accorded For Rs 49.00 lakhs only
Head of A/C. 10-3521
CER NO :AC/68/18-19 Dt: 07.12.18

TA CE (YNK)

Technical Sanction
Accorded For Rs 49.00 lakhs only
Head of A/C. 10-3521
CER NO TS/131/18-19 Dt: 07.12.18

TA CE (YNK)


pujarappa. House.
25.50 mts.
Pram - 42.00mt
Road CC - 44.20 mts.
R/S by 45
4th Cross. ವಿಜಯಲಕ್ಷ್ಮಿ ರಸ್ತೆ
89.00 mt
Dead End
Dead End
3rd Cross
NOT TO SCALE
D
56.00mt
IInd Cross ಎಕಾಸಬಡಾವಣೆ
2nd Cross. → ಸಿಂಧು ಪೈಪ್ಸ್‌ರವರಿಗೆ ಕಾರ್ಖಾನೆ
Dead End.
C'C. Road.
R.C.G. DRAIN
53.00mts.
A'
ಎಕಾಸ ಬಡಾವಣೆ
IInd Cross
70'mt.
C
25.00mt.
B'
ಎಕಾಸ. ಬಡಾವಣೆ
Ist main Road.
22.00mt
28th Cross


2nd main Road
9th A main
36.00 mt
C C Road
2nd main Road
NOT TO SCALE
C.C. Road.
3rd main Road
4th main
C.C.Road
4th main 2nd Cross
61.80 mt
1st A cross.
Dead End